

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 2: Generation Study - Includes Extrapolation of Residential or Non-Residential Diversion Data

To request a substitution for a previously approved base year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to reach your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance (MS - 25)
1001 I Street
PO Box 4025 (mailing address)
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

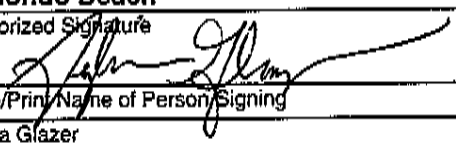
1. Use a recent generation-based study to calculate our current reporting year generation amount, but not officially change our existing Board-approved base year.
2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The shaded cells on these sheets are protected. If you have problems using these sheets, please contact your Office of Local Assistance representative by calling (916) 341-6199

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name Redondo Beach		County Los Angeles	
Authorized Signature 		Title Director of Public Works	
Type/Print Name of Person Signing Sylvia Glazer	Date 4/2/2002	Phone () include Area (310) 318-0686 ext. 4151	
Person Completing This Sheet (please print or type) Jon Emerson		Title Senior Management Analyst	
Affiliation: Public Works Department, City of Redondo Beach			
Mailing Address 531 North Gertruda Avenue	City Redondo Beach	State CA	ZIP Code 90277
E-Mail Address jon.emerson@redondo.org			

Section II: Information for New Generation-Based Study	
Attach additional sheets if necessary—reference each response to the appropriate cell number (e.g., "4").	
<i>Note: New base years must be representative of a jurisdiction's disposal and diversion.</i>	
1. Current Board-approved existing base year:	2. Proposed new generation-based study year:
1990	2000
3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:	
<p>The proposed generation study more accurately reflects the diversion activities and disposal reporting for the City. Disposal tonnage is obtained from the DRS except for the first quarter of 2000 from the SERRF facility which was not reported to the DRS. Activities handled by the franchised hauler are reported to the City which allows Redondo Beach to track and better manage diversion activities through the City. However, independent recycling and waste prevention activities practiced by businesses are not reported by the hauler, and thus, have been gathered for this study. This has also given the waste hauler an opportunity to provide support and technical assistance to businesses during contact. This partnership has existed since late 1996, and the calculated diversion rate from this study is consistent with the reported activities. The possibility for reduction in disposal is one issue to examine in the future. Currently, a sizeable portion of Torrance is located on City of Redondo Beach parcels. Therefore, a substantial amount of waste is incorrectly allocated to the City of Redondo Beach.</p>	

4. Enter diversion rate information below.			
Diversion rate calculated using existing base year	a. 25 %	Diversion rate calculated using new generation-based study	b. 37 %
For existing base year pounds/person/day based on generation	9	For new generation based study pounds/person/day based on generation	11
Residential 50 % generation	50 %	Residential 34 % generation	66 %
Population existing generation-based study	60167	Population new generation-based study	67,600

5. If there is an increase from 4a to 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide examples (e.g., change in jurisdiction's demographics).
<p>Redondo Beach's waste is generated from a diverse population: both residential & commercial, large technical corporations to small beachside boutiques, small to large multi-family units, and tourist trade. The new diversion rate reflects the city's current diversion efforts which require the same amount of diversity. These include green waste and mixed recyclables curbside collection, multi-family recyclables collection, business sector waste reduction and recycling efforts, and other policies, ordinances, and outreach efforts. Diversion measurement systems for some programs are being further developed. The City conducted a detailed technical outreach and assistance waste auditing program to numerous businesses and uncovered significant amounts of diversion. Much of the business sector information was not completely reflected during the initial solid waste study in 1990, and other new diversion efforts have been implemented since that time. Exclusive franchise agreements with the contracted hauler also has helped to better track activities. The change in per capita generation is due to improved data collection and capture provided by this study and improved reporting by recyclers and the franchised hauler.</p>
6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)
<p>The new diversion rate is consistent with current diversion implementation efforts including green waste and mixed recyclables curbside collection, multi-family recyclables collection, business sector waste reduction and recycling efforts, and other policies and incentives implemented since 1990. In addition, the improved reporting provided by the waste audits and haulers and recyclers has improved the diversion rate as well. The City is comprised of both a residential and business community, however ongoing remodeling and construction activities and related tonnage occurring in the residential sector and along with construction in the commercial sector, which has been growing steadily due to the good economy, are reported by the commercial haulers and under commercial tonnage. Therefore, there is a significant change in the non-residential generation tonnage between 1990 and now.</p>

7. Disposal Tonnage (enter values):

28163	55208	83371
Residential	Non-Residential	Total

Please select the **ONE** choice below that best explains your disposal data and complete the required tables.

☒ Tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

☐ All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at www.ciwmb.ca.gov/LGCentral/Forms/ymrmdrq.doc)

☐ Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at www.ciwmb.ca.gov/LGCentral/Forms/ymrmdrq.doc)

8. In the table below, list the summarized diversion activities and diversion data records that support your claim and are available for Board audit. Note: the Board expects the jurisdictions to be able to provide all backup documentation, if requested. Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (sheet will perform all additional calculations). If any diversion is from restricted wastes (i.e., agricultural wastes, inert solids (e.g. concrete, asphalt, dirt, etc.), white goods, and scrap metal), please identify those programs/waste types and fill out section 11. Note: Restricted waste material should not be extrapolated in non-residential waste audits. Please mark as attachment & all copies of survey sheets.

* Please provide detailed non-residential waste audit information in Section 9.

Note: The Board has indicated that it will be scrutinizing total source reduction amounts greater than 5% of total generation. Please be prepared to provide additional details substantiating your claim.

Diversion Activity	Actual Tons	Estimated or Extrapolated Tons	Total Tons	Relative Percent to Total Generation (A+BYT total Generation)	Specific Material Type(s)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Residential Source Reduction							
Backyard Composting							
Grasscycling							
Other Residential Source Reduction (list each program separately)							
1010-SR-8CM Backyard Composting & Worm Bins Sold					yard waste & food waste	no known conversion factor; 897 bins sold through 2000	
Enter program name							
Enter program name							
Enter program name							
Subtotal, Res. Source Reduction	0	0	0				
Residential Recycling Activities							
Curbside Recycling					aluminum, steel & tin cans, glass bottles & jars, PETE & HDPE plastic bottles, containers, plates & non-bottle shaped containers, and CCC	hauler records	Waste Management Inc. - Los Angeles District - Summary of Diversion Tonnage Report for 2000
Buyback Centers	8125	N/A	8125.07	6.2%	Aluminum, plastic, and glass redemption containers (RC accounts only)	Source: Department of Conservation	Buy Back Center Tonnage Report from the State of California, Department of Conservation
Drop-off Centers	310	N/A	310.35	0.2%			
Other Residential Recycling (list each program separately)							
2070-RC-SNL Bulky Item Pick-up	0	N/A			white goods and furniture are recycled	no tonnages available to City in 2000	Waste Management Inc. - Los Angeles District, Carson Transfer Station - no reporting structure in 2000, working on determining allocation for various jurisdictions (difficult to enforce)
2070-RC-SNL E-Waste Drop off Event	0	N/A			computers, TV's, monitors, VCRs, etc.	no tonnages available to City in 2000	E-waste recycler

Diversion Activity	Actual Tons (A)	Estimated or Extrapolated Tons (B)	Total Tons (A+B)	Relative Percent to Total Generation (A+B)/Total Generation	Specific Material Type(s) (List programs with multiple materials together)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at: www.ciwmbo.ca.gov/LG/Central/PARIS/Code/Reduce.htm							
Enter program name		N/A					
Enter program name		N/A					
Subtotal, Residential Recycling	8435		8435.42	5.4%			
Residential Composting Activities							
Green Waste Drop-off						tonnages reported by owner but actual allocation of green waste from City land cannot be determined	Waste Management Inc. - Los Angeles District, Carlton Transfer Station
Curb-side Green Waste	210	N/A	209.91	0.2%	green waste	5801.43 tons based on hauler (Waste Management, Inc.) records of green waste collected and taken to transfer station (also Waste Management, Inc.) DRS identifies 1540.05 tons used for ADC at county landfills. Beginning Sept. 2000, WM hauled all curbside green waste & screened & taken to San Joaquin Composting (1763.75 tons). The remaining 4261.38 tons was taken to Biomass in Orange County (who mulches and takes to landfill for ADC) or used for beneficial use. LA County report, trees are ground and used as ADC (ADC was not used below)	Waste Management Inc. - Los Angeles District -- Summary of Diversion Tonnage Report for 2000
Christmas Tree Program	5801	N/A	5801.43	4.4%	green waste		Waste Management Inc. - Los Angeles District
	29	N/A	28.64	0.0%	Christmas trees		Waste Management Inc. - Los Angeles District
Other Residential Composting (list each program separately)							
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Subtotal, Residential Composting	6040		6039.98	4.5%			
Subtotal, Residential Diversion	14475	0	14475.4	11.0%			
Non-Residential Source Reduction							
Non-Residential Waste Audits	753	2223	2975.92	2.3%			
Other Non-Residential Source Reduction (list each program separately)							
							See Section 9

Diversion Activity	Actual Tons (A)	Estimated or Extrapolated Tons (B)	Total Tons (A+B)	Relative Percent to Total Generation (A+BYT) total Generation	Specific Material Type(s) (List programs with multiple materials together)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at: www.ciwmib.ca.gov/LGC/central/PAR/S&C/Code/Reduce.htm							
1050-SR-GOV Mulching of City trees & left easile	357	N/A	357.31	0.3%	yard waste: tree trimmings (composting)	Contractor tonnage report	West Coast Arborists summary report to Dept. Public Works
1000-SR-XGC Grasscycling at City parks, right of ways, schools & cemetery	4	N/A	3.5	0.0%	yard waste: tree trimmings mulched & left onsite	Contractor tonnage report	South Bay Landscaping report upon request
1000-SR-XGC Schools provide additional grasscycling of areas between buildings & non-playfields	404	N/A	404.495	0.3%	grass cuttings 62.23 acres	6.5 TPAP; UC Riverside Co-Op Extension, California Turf grass Culture Study, Volume 46, Nos. 182, 1996	Department of Public Works grasscycling records
1040-SR-SCH School District centralizes photocopying and duplexes 30%	76	N/A	76	0.1%	grass cuttings 11.72 acres that the City does NOT grasscycle	6.5 TPAP; UC Riverside Co-Op Extension, California Turf grass Culture Study, Volume 46, Nos. 182, 1996	Redondo Beach Unified School District report upon request
Subtotal, Non-Residential Source Reduction	2	N/A	2.415	0.0%	paper - duplex & centralized printing of student handouts	5 bty/500 sheets (room) USEPA	Redondo Beach Unified School District report upon request
Non-Residential Recycling Activities							
Non-Residential Waste Audits*	4642	9802	14444.35	11.0%			See Section 9
Other Non-Residential Recycling (list each program separately)							
2060-RC-GOV City C&D Recycling	1122	N/A	1122.48	0.9%	City trucks now take C&D material to Transfer Station for recycling	Beach City hauled material (City Account at Transfer Station): assume 90% of 1247.20 tons brought was recycled.	Waste Management Calson Transfer Station
4060-SP-CAR Debris Recycling Program	3335	N/A	3335	2.5%	inert material	Non-Gov self haul to Chandler's. Resale of inert material as aggregate. Does not include inert recycling for use as land reclamation of 22,969 tons in	Chandler's Potos Verdes Sand & Gravel Company
4060-SP-CAR C&D Recycling Program	40	N/A	40.419	0.0%	C&D recycling for commercial accounts	Only those accounts serviced by franchised hauler reported -- 90% capture rate credited. Logistics for tracking from permitting and being	Waste Management Calson Transfer Station
Transformation	6349	N/A	6349.32	4.8%	Transformation	hauler records	Waste Management Inc. - Los Angeles District - Summary of Division Tonnage Report for 2000
Enter program name		N/A					
Subtotal Non-Residential Recycling	15469	9802.35	25271.569	19.2%			
Non-Residential Composting Activities							
Non-Residential Waste Audits*	516	1134	1650.65	1.3%			See Section 9
Other Non-Residential Composting (list each program separately)							
Enter program name		N/A					
Enter program name		N/A					

Diversion Activity	Actual Tons (A)	Estimated or Extrapolated Tons (B)	Total Tons (A+B)	Relative Percent to Total Generation (A+B)/Total Generation	Specific Material Type(s) (List programs with multiple materials together)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at: www.ciwmh.ca.gov/LGCentral/PART/SCodes/Redline.htm							
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Subtotal Non-Residential Composting	516	1134.28	1650.65	1.3%			
Subtotal, Non-Residential Diversion	17602	13159.54	30761.859	23.4%			
Residential/Non-Residential Diversion Activities							
ADC	0	N/A			included in hauler green waste program		
Sludge		N/A					
Scrap Metal	7	N/A	7.384	0.0%	scrap metal recycling & source reduction	non-extrapolated tonnages	See Attachment 9C
Construction and Demolition Landfill salvage	2844	N/A	2844.37	2.2%	Beneficial use / materials salvaged at landfill	tonnage report	County of Los Angeles, Department of Public Works, Revised Solid Waste Quarterly Disposal Quantity Report, (Nov. 20, 2001 report)
Subtotal Residential/Non- Residential Diversion	2852		2851.754	2.2%			
Total Res/Non-Res Source Reduction Tons	1597	2223	3820	2.9%			
Total Diversion Tons	34929	13159.54	48089.013	37%			
Total Disposal Tons from Sec.7	83371		83371	63.4%			
Total Generation (Div+Dis)	118100	13159.54	131490.013				
Diversion Rate				37%			

Redondo Beach NBYS												
Attachment 9B - Summary of All Businesses, Largest Diverters to Smallest												
Ref. No.	Business Type	Notes	# Emp	SR lbs.	Recycle lbs.	Metals SR	Metals R	Waste Program Began Indicate if multiple materials, A=metal, L=landfill, A=	Inerts or Aggregates SR	Inerts or Aggregates R	Composting	Diversion Pounds per year
137	Grocery Store	corporate averages	54.0	0.00	1,348,176.00	0.00	0.00		0.00	0.00	499,200.00	1,847,376.00
138	Grocery Store	corporate averages	31.3	0.00	1,348,176.00	0.00	0.00		0.00	0.00	499,200.00	1,847,376.00
131	Aerospace & Defense		9,000.0	305,500.00	893,600.00	0.00	0.00		0.00	0.00	0.00	1,199,100.00
136	Grocery Store		80.0	10,920.00	1,040,212.00	0.00	0.00		0.00	0.00	34,341.00	1,085,473.00
33	Electronics Retail Store		52.5	4,828.00	842,700.00	0.00	0.00		0.00	0.00	0.00	847,528.00
43	Drugstore		33.0	11,700.00	625,440.00	0.00	0.00		0.00	0.00	0.00	637,140.00
98	Department Store		45.0	28,670.00	324,480.00	0.00	0.00		0.00	0.00	0.00	353,150.00
88	Department Store		65.0	190,200.00	160,680.00	0.00	0.00		0.00	0.00	0.00	350,880.00
139	Grocery Store		63.0	143,000.00	193,440.00	0.00	0.00		0.00	0.00	0.00	336,440.00
48	Tire Store - Retail	phone survey	7.0	52.00	312,915.20	0.00	0.00		0.00	0.00	0.00	312,967.20
78	Auto Repair		40.0	16,640.00	281,080.00	10,400.00	0.00	after 1995	0.00	0.00	0.00	308,120.00
130	Grocery Store		40.0	77,918.00	195,000.00	0.00	0.00		0.00	0.00	0.00	272,916.00
36	Plastic exporter		15.0	209,603.00	50,080.00	0.00	0.00		0.00	0.00	0.00	259,680.00
219	Grocery Store		30.0	15,912.00	240,456.20	0.00	0.00		0.00	0.00	0.00	256,368.20
245	Market		98.5	28,935.00	205,368.80	0.00	0.00		0.00	0.00	0.00	234,303.80
73	Department Store		65.0	45,942.00	145,566.80	0.00	0.00		0.00	0.00	0.00	191,508.80
109	Food Supplies - Retail		10.0	36,712.00	115,360.00	0.00	0.00		0.00	0.00	0.00	152,072.00
174	Electronic parts		20.0	1,300.00	113,412.00	0.00	0.00		0.00	0.00	0.00	114,712.00
141	Washing Machine Service		175.0	5,337.75	79,910.08	0.00	0.00		0.00	0.00	0.00	85,247.83
61	Copy Service		12.0	600.00	75,608.00	0.00	0.00		0.00	0.00	0.00	76,208.00
105	Misc. Retail		34.0	36,730.00	29,360.00	0.00	0.00		0.00	0.00	0.00	66,090.00
82	Misc. Retail		10.0	4,160.00	52,480.00	0.00	0.00		0.00	0.00	0.00	56,640.00
80	Retail Pet Supplies		17.5	5,648.00	45,760.00	0.00	0.00		0.00	0.00	0.00	51,408.00
11	Auto Tires Retail		7.0	0.00	49,601.60	0.00	0.00		0.00	0.00	0.00	49,601.60
111	Retail Nursery		4.0	47,008.00	0.00	0.00	0.00		0.00	0.00	0.00	47,008.00
4	Garage Doors Retail		2.0	36,000.00	0.00	0.00	0.00		0.00	0.00	0.00	36,000.00
21	Restaurant		12.0	988.00	34,320.00	0.00	0.00		0.00	0.00	0.00	35,308.00
5	Computer Sales & Parts Retail		7.0	2,161.50	31,729.92	0.00	0.00		0.00	0.00	0.00	33,891.42
83	Housewares - Retail		5.0	0.00	31,200.00	0.00	0.00		0.00	0.00	0.00	31,200.00
243	Drug store		19.5	8,320.00	20,805.00	0.00	0.00		0.00	0.00	0.00	29,125.00
65	Retail Furniture		32.5	2,625.00	24,000.00	0.00	0.00		0.00	0.00	0.00	26,625.00
186	Wholesale toys		4.0	23,010.00	120.00	0.00	0.00		0.00	0.00	0.00	23,130.00
167	Retail skiwear		4.0	52.00	20,833.28	0.00	0.00		0.00	0.00	0.00	20,885.28
102	Retail Mini Mart		6.0	9,880.00	8,280.00	0.00	0.00		0.00	0.00	0.00	18,160.00
97	Misc. Retail		22.5	16,640.00	52.00	0.00	0.00		0.00	0.00	0.00	16,692.00
117	Coffee House		5.0	4,787.40	10,400.00	0.00	0.00		0.00	0.00	0.00	15,187.40
62	Retail Hardware		4.0	6,318.00	7,812.48	0.00	0.00		0.00	0.00	0.00	14,130.48
235	Pet supply store		7.0	7,280.00	5,628.48	0.00	0.00		0.00	0.00	0.00	12,908.48
125	Electronics Retail		45.0	4,108.00	8,580.00	0.00	0.00		0.00	0.00	0.00	12,688.00
38	Retail Motorcycle & Repair Shop		8.0	104.00	12,040.00	0.00	0.00		0.00	0.00	0.00	12,144.00
188	Liquor Store		3.0	1,170.00	10,420.00	0.00	0.00		0.00	0.00	0.00	11,590.00
103	Retail Mini Mart		6.0	5,304.00	6,200.00	0.00	0.00		0.00	0.00	0.00	11,504.00
10	Retail Bicycles & Repair Shop		4.0	8,060.00	3,432.00	0.00	0.00		0.00	0.00	0.00	11,492.00
104	Second Hand - Clothing & Houseware Store		8.0	11,440.00	0.00	0.00	0.00		0.00	0.00	0.00	11,440.00
101	Retail Appliances/Repair		3.0	260.00	10,416.64	0.00	0.00		0.00	0.00	0.00	10,676.64
26	Restaurant		10.0	629.20	10,018.00	0.00	0.00		0.00	0.00	0.00	10,647.20
7	Retail Auto Parts Store		4.0	5,252.00	5,056.00	0.00	0.00		0.00	0.00	0.00	10,308.00

Redondo Beach NBYS												
Attachment 9B - Summary of All Businesses, Largest Diverters to Smallest												
Ref.	Business Type	Notes	# Emp	SR lbs.	Recycle lbs.	Metals SR	Metals R	Waste Pgm Begon Indicate if multiple Metals =metal, E-hent, A-4	Year Restricted	Composting	Diversion Pounds per year	Diversion Tons per year
90	Electronics		3.0	738.40	2,002.00	0.00	0.00	0.00	0.00	0.00	2,740.40	1.37
66	Mail Services		1.0	2,708.00	0.00	0.00	0.00	0.00	0.00	0.00	2,708.00	1.35
241	Electronics store		5.0	0.00	2,604.16	0.00	0.00	0.00	0.00	0.00	2,604.16	1.30
194	Insurance Agency		10.0	1,293.80	1,215.20	0.00	0.00	0.00	0.00	0.00	2,509.00	1.25
158	Women's clothing store		10.0	210.00	2,288.00	0.00	0.00	0.00	0.00	0.00	2,498.00	1.25
223	Florist		7.0	2,470.00	0.00	0.00	0.00	0.00	0.00	0.00	2,470.00	1.24
154	Restaurant		8.0	0.00	2,460.00	0.00	0.00	0.00	0.00	0.00	2,460.00	1.23
213	Restaurant		15.0	0.00	2,460.00	0.00	0.00	0.00	0.00	0.00	2,460.00	1.23
217	Restaurant		4.0	0.00	2,460.00	0.00	0.00	0.00	0.00	0.00	2,460.00	1.23
53	Corp. Gift Store - Retail		2.0	2,340.00	0.00	0.00	0.00	0.00	0.00	0.00	2,340.00	1.17
86	Notary Public		3.0	1,294.80	1,034.80	0.00	0.00	0.00	0.00	0.00	2,329.60	1.16
92	Hardware Store - Retail		2.0	0.00	2,288.00	0.00	0.00	0.00	0.00	0.00	2,288.00	1.14
163	Pharmacy		2.0	2,288.00	0.00	0.00	0.00	0.00	0.00	0.00	2,288.00	1.14
216	Pharmacy		3.0	2,288.00	0.00	0.00	0.00	0.00	0.00	0.00	2,288.00	1.14
218	Liquor Store		1.0	0.00	2,288.00	0.00	0.00	0.00	0.00	0.00	2,288.00	1.14
119	Electronic Accounting		7.0	1,040.00	1,200.00	0.00	0.00	0.00	0.00	0.00	2,240.00	1.12
55	Art Gallery		2.0	10.40	2,184.00	0.00	0.00	0.00	0.00	0.00	2,194.40	1.10
8	Realty Company		8.0	1,300.00	772.40	0.00	0.00	0.00	0.00	0.00	2,072.40	1.04
71	Social Club		2.0	0.00	1,960.40	0.00	0.00	0.00	0.00	0.00	1,960.40	0.98
191	Veterinary Offices		4.0	1,268.80	686.40	0.00	0.00	0.00	0.00	0.00	1,955.20	0.98
198	Nail salon		3.0	1,854.21	0.00	0.00	0.00	0.00	0.00	0.00	1,854.21	0.93
124	Gift Shop		5.0	638.00	1,144.00	0.00	0.00	0.00	0.00	0.00	1,782.00	0.88
3	Retail Storage Facility		1.0	1,716.00	0.00	0.00	0.00	0.00	0.00	0.00	1,716.00	0.86
34	Flower Store		5.0	0.00	1,716.00	0.00	0.00	0.00	0.00	0.00	1,716.00	0.86
47	Wholesale audio		2.0	1,674.40	0.00	0.00	0.00	0.00	0.00	0.00	1,674.40	0.84
75	Espresso Bar		5.0	260.00	1,300.00	0.00	0.00	0.00	0.00	0.00	1,560.00	0.78
242	Tobacco store		2.0	0.00	1,560.00	0.00	0.00	0.00	0.00	0.00	1,560.00	0.78
193	Carry-out restaurant		5.0	852.80	696.40	0.00	0.00	0.00	0.00	0.00	1,549.20	0.77
32	Retail shoe store		3.0	514.80	1,029.60	0.00	0.00	0.00	0.00	0.00	1,544.40	0.77
289	Delitake out		3.0	0.00	1,540.50	0.00	0.00	0.00	0.00	0.00	1,540.50	0.77
72	Video rental		5.0	390.00	1,144.00	0.00	0.00	0.00	0.00	0.00	1,534.00	0.77
88	Financial Planning		10.0	1,060.00	457.60	0.00	0.00	0.00	0.00	0.00	1,517.60	0.76
19	Therapy Center & Spa		6.0	0.00	1,487.20	0.00	0.00	0.00	0.00	0.00	1,487.20	0.74
2	Gifts & Imports Retail		3.0	1,430.00	0.00	0.00	0.00	0.00	0.00	0.00	1,430.00	0.72
143	Assemble Electronic Parts		3.0	1,430.00	0.00	0.00	0.00	0.00	0.00	0.00	1,430.00	0.72
93	Marine Hardware - Retail		2.0	0.00	1,372.80	0.00	0.00	0.00	0.00	0.00	1,372.80	0.69
114	Sales & Service		1.0	0.00	1,372.80	0.00	0.00	0.00	0.00	0.00	1,372.80	0.69
195	Nail salon		2.0	1,348.80	0.00	0.00	0.00	0.00	0.00	0.00	1,348.80	0.67
159	Film Lab/ Retail center		7.0	0.00	1,315.60	0.00	0.00	0.00	0.00	0.00	1,315.60	0.65
81	Retail Nursery		6.0	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	1,300.00	0.65
127	Customs Broker		20.0	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	1,300.00	0.65
18	Clothing Store		4.0	0.00	1,258.40	0.00	0.00	0.00	0.00	0.00	1,258.40	0.63
177	Liquor Store		3.0	0.00	1,258.40	0.00	0.00	0.00	0.00	0.00	1,258.40	0.63
173	Gifts		3.0	452.40	800.80	0.00	0.00	0.00	0.00	0.00	1,253.20	0.63
153	Restaurant		5.0	0.00	1,230.00	0.00	0.00	0.00	0.00	0.00	1,230.00	0.62
107	Sud Shop - Retail		2.0	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	1,200.00	0.60
205	Carry-out restaurant		4.0	494.00	686.40	0.00	0.00	0.00	0.00	0.00	1,180.40	0.58

Redondo Beach NBYS

Attachment 9B - Summary of All Businesses, Largest Diverters to Smallest

Ref.	Business Type	Notes	# Emp	SR lbs.	Recycle lbs.	Metals SR	Metals R	Waste Prgm Began Indicate if multiple material, limited, As	Inerts or Aggregates SR	Composting R	Diversion Pounds per year	Diversion Tons per year
No.												
89	Electronics - Retail		5.0	26.00	1,144.00	0.00	0.00		0.00	0.00	1,170.00	0.59
60	Thrift Store		5.0	0.00	1,144.00	0.00	0.00		0.00	0.00	1,144.00	0.57
64	Liquor Store - Retail		3.0	0.00	1,144.00	0.00	0.00		0.00	0.00	1,144.00	0.57
94	Retail Cleaning Supplies		2.0	0.00	1,144.00	0.00	0.00		0.00	0.00	1,144.00	0.57
207	Gas Station		5.0	0.00	1,144.00	0.00	0.00		0.00	0.00	1,144.00	0.57
236	Tanning salon		4.5	0.00	1,144.00	0.00	0.00		0.00	0.00	1,144.00	0.57
182	Variety Store		7.0	800.80	286.00	0.00	0.00		0.00	0.00	1,086.80	0.54
232	Shoe store		2.0	0.00	1,076.40	0.00	0.00		0.00	0.00	1,076.40	0.54
147	Artwork Shop		8.0	1,068.80	0.00	0.00	0.00		0.00	0.00	1,068.80	0.53
200	Oral surgery		8.0	389.40	657.60	0.00	0.00		0.00	0.00	1,040.00	0.52
59	Upholstery		2.0	0.00	1,040.00	0.00	0.00		0.00	0.00	1,040.00	0.52
215	Sporting Goods		4.0	0.00	1,040.00	0.00	0.00		0.00	0.00	1,040.00	0.52
129	Cleaners		5.0	0.00	286.00	728.00	0.00		0.00	0.00	1,014.00	0.51
180	Computer Classes		10.0	448.80	514.80	0.00	0.00		0.00	0.00	963.60	0.48
196	Cleaners		2.0	707.20	228.80	0.00	0.00		0.00	0.00	936.00	0.47
57	Electronic Repair		2.0	0.00	896.00	0.00	0.00		0.00	0.00	896.00	0.45
121	Wholesale Surgical Prod.		10.0	374.00	520.00	0.00	0.00		0.00	0.00	894.00	0.45
37	Gifts, cards		3.0	52.00	800.80	0.00	0.00		0.00	0.00	852.80	0.43
247	Gift Store		3.0	842.40	0.00	0.00	0.00		0.00	0.00	842.40	0.42
128	Cleaners		2.0	0.00	728.00	0.00	0.00		0.00	0.00	728.00	0.36
120	Retail Sports Equip.		2.0	722.00	0.00	0.00	0.00		0.00	0.00	722.00	0.36
42	Second Hand Toy Store - Retail		1.0	0.00	686.40	0.00	0.00		0.00	0.00	686.40	0.34
132	Auto Repair		4.0	0.00	686.40	0.00	0.00		0.00	0.00	686.40	0.34
187	Video Store		5.0	260.00	400.40	0.00	0.00		0.00	0.00	660.40	0.33
192	Douut shop		2.0	395.20	228.80	0.00	0.00		0.00	0.00	624.00	0.31
203	Dentist		3.0	260.00	328.80	0.00	0.00		0.00	0.00	588.80	0.29
67	Mail Services		2.0	0.00	577.60	0.00	0.00		0.00	0.00	577.60	0.29
30	Jewelry Store		7.0	166.40	400.40	0.00	0.00		0.00	0.00	566.80	0.28
185	Sound Systems		3.0	52.00	514.80	0.00	0.00		0.00	0.00	566.80	0.28
140	Computer Service Sales		12.0	550.00	0.00	0.00	0.00		0.00	0.00	550.00	0.28
178	Dry Cleaning		6.0	540.80	0.00	0.00	0.00		0.00	0.00	540.80	0.27
52	Commercial Cameras & Lens		7.0	540.00	0.00	0.00	0.00		0.00	0.00	540.00	0.27
190	Marketing		3.0	130.00	400.40	0.00	0.00		0.00	0.00	530.40	0.27
63	Eye Glasses		5.0	0.00	520.00	0.00	0.00		0.00	0.00	520.00	0.26
106	TV & VCR Repair Shop		1.0	238.50	276.80	0.00	0.00		0.00	0.00	515.30	0.26
135	Video Rental & Sales		1.0	260.00	228.80	0.00	0.00		0.00	0.00	488.80	0.24
85	Cleaners		7.0	26.00	457.60	0.00	0.00		0.00	0.00	483.60	0.24
40	Graphic Design		4.0	130.00	348.80	0.00	0.00		0.00	0.00	478.80	0.24
15	Retail Health Store		2.0	228.80	228.80	0.00	0.00		0.00	0.00	457.60	0.23
31	Tea & gifts		4.0	228.80	228.80	0.00	0.00		0.00	0.00	457.60	0.23
45	Nature Store Retail		1.0	0.00	457.60	0.00	0.00		0.00	0.00	457.60	0.23
134	Interior Design		2.0	0.00	457.60	0.00	0.00		0.00	0.00	457.60	0.23
181	Gifts		3.0	171.60	286.00	0.00	0.00		0.00	0.00	457.60	0.23
183	Auto Repair		5.0	0.00	457.60	0.00	0.00		0.00	0.00	457.60	0.23
237	Tanning salon		4.5	457.60	0.00	0.00	0.00		0.00	0.00	457.60	0.23
35	Retail Bicycles & Repair Shop		3.0	0.00	418.00	0.00	0.00		0.00	0.00	418.00	0.21
50	Florist		3.0	400.40	0.00	0.00	0.00		0.00	0.00	400.40	0.20
49	Cleaners		12.0	104.00	260.00	0.00	0.00		0.00	0.00	364.00	0.18

Redondo Beach NBYS Attachment 9B - Summary of All Businesses, Largest Diverters to Smallest												
Ref. No.	Business Type	Notes	# Emp	SR lbs.	Recycle lbs.	Metals SR	Metals R	Metals Indicate if multiple metal, Linest, A-3	Inerts or Adherents or Ag SR	Composting R	Pounds per year	Diversion Tons per year
20	Cigar Retail Store		1.0	0.00	343.20	0.00	0.00		0.00	0.00	343.20	0.17
165	Jewelry Store		5.5	52.00	286.00	0.00	0.00		0.00	0.00	338.00	0.17
144	Mortuary		2.0	104.00	228.80	0.00	0.00		0.00	0.00	332.80	0.17
170	Kitchens		2.0	62.40	228.80	0.00	0.00		0.00	0.00	291.20	0.15
14	Live Birds & Accessories Retail		5.0	0.00	286.00	0.00	0.00		0.00	0.00	286.00	0.14
149	Optical store		3.0	286.00	0.00	0.00	0.00		0.00	0.00	286.00	0.14
176	Computers		2.0	0.00	286.00	0.00	0.00		0.00	0.00	286.00	0.14
189	Plumbing & Heating		3.0	0.00	286.00	0.00	0.00		0.00	0.00	286.00	0.14
24	Flooring Sales		4.0	52.00	228.80	0.00	0.00		0.00	0.00	280.80	0.13
221	Stone and Tile Flooring		3.0	260.00	0.00	0.00	0.00		0.00	0.00	260.00	0.13
77	Retail Cell Phone Sales		3.0	250.40	0.00	0.00	0.00		0.00	0.00	250.40	0.13
27	Accounting		2.0	130.00	114.40	0.00	0.00		0.00	0.00	244.40	0.12
17	Custom Canvas & Repair Service		2.0	228.80	0.00	0.00	0.00		0.00	0.00	228.80	0.11
145	Cleaners		4.0	0.00	228.80	0.00	0.00		0.00	0.00	228.80	0.11
56	Car Rental		4.0	104.00	114.40	0.00	0.00		0.00	0.00	218.40	0.11
161	Health Aids		2.0	0.00	211.20	0.00	0.00		0.00	0.00	211.20	0.11
171	Insurance		2.0	52.00	120.00	0.00	0.00		0.00	0.00	172.00	0.09
228	Video Rental		4.0	171.60	0.00	0.00	0.00		0.00	0.00	171.60	0.09
234	Card shop		5.0	0.00	171.60	0.00	0.00		0.00	0.00	171.60	0.09
246	Card shop		5.0	0.00	171.60	0.00	0.00		0.00	0.00	171.60	0.09
12	Retail Bicycles & Repair Shop		1.0	0.00	162.40	0.00	0.00		0.00	0.00	162.40	0.08
184	Graphics		4.0	130.00	0.00	0.00	0.00		0.00	0.00	130.00	0.07
6	Air Conditioning & Heating		2.0	124.80	0.00	0.00	0.00		0.00	0.00	124.80	0.06
113	Master Tailors		2.0	0.00	114.40	0.00	0.00		0.00	0.00	114.40	0.06
25	Travel agency		3.0	104.00	0.00	0.00	0.00		0.00	0.00	104.00	0.05
46	Car Rental		6.0	104.00	0.00	0.00	0.00		0.00	0.00	104.00	0.05
214	Gas Station		3.0	92.40	0.00	0.00	0.00		0.00	0.00	92.40	0.05
220	Resale Childrens Store		1.5	0.00	78.00	0.00	0.00		0.00	0.00	78.00	0.04
44	Air Conditioning/ Heating		2.0	63.20	0.00	0.00	0.00		0.00	0.00	63.20	0.03
23	Property management		3.0	52.00	0.00	0.00	0.00		0.00	0.00	52.00	0.03
112	Security Gates, Fencing		6.0	52.00	0.00	0.00	0.00		0.00	0.00	52.00	0.03
169	Medical Offices		1.0	52.00	0.00	0.00	0.00		0.00	0.00	52.00	0.03
179	Travel Agency		3.0	52.00	0.00	0.00	0.00		0.00	0.00	52.00	0.03
225	Dry Cleaners		2.0	28.80	0.00	0.00	0.00		0.00	0.00	28.80	0.01
108	Signs & Banners		4.0	26.00	0.00	0.00	0.00		0.00	0.00	26.00	0.01
199	Custom construction		3.0	26.00	0.00	0.00	0.00		0.00	0.00	26.00	0.01
239	Day cleaners		2.5	25.74	0.00	0.00	0.00		0.00	0.00	25.74	0.01
1	Karate Studio		2.0	10.40	0.00	0.00	0.00		0.00	0.00	10.40	0.01
28	Reading Center	No Quantifiable Activities	1.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
39	Cleaners	No Quantifiable Activities	3.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
54	Carpet Store	No Quantifiable Activities	12.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
58	Cleaners	No Quantifiable Activities	2.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
70	Clothes Alteration	No Quantifiable Activities	1.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
91	Glass Company	No Quantifiable Activities	4.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
95	Self Storage Company	No Quantifiable Activities	5.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
126	Furniture Stripping/Refinish	No Quantifiable Activities	4.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
148	Callie Shop	No Quantifiable Activities	7.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
156	Antique / Jewelry Store	No Quantifiable Activities	2.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00

REDONDO BEACH NITYS														
Attachment 9C - Detail List of All Businesses														
Ref. No.	Business Type	Activity	# Emp	SFI	Recycle Fee	Waste	SR	Material	Waste	SR	Material	Waste	SR	Material
Year Began														
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RECONDO BEACH RENT										Attachment 9C - Detail Unit of All Businesses									
Ref	Business Type	Activity	# Emp	SF	Recycle	Meats	Materials	Year Restricted	Waste Pymt Began	Materials	Inerts or Ag	Inerts or Ag	Composting	Material	Conversion Factor	Source	Diversion	Diversion	Diversion
No				sq	lb	lb	lb	lb	lb	lb	lb	lb	lb	Type		per year	per year	per year	
17	Dart Gun & Repair Service	Plastic VCR jackets reuse (most the chain trash)	2.0	650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Plastic	4 oz box	Business	650.00	0.30	0.30
18	Grading Store	CCC reuse	4.0	228.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	228.40	0.11	0.11
19	Therapy Center & Spa	CCC recycle	8.0	0.00	1,253.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	1,253.40	0.63	0.63
		CCC recycle		0.00	1,487.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	1,487.20	0.74	0.74
20	Cigs Retail Store	WV recycle	1.0	0.00	1,201.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	1,201.20	0.60	0.60
21	Restaurant	CCC recycle	12.0	988.00	34,320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	34,320.00	17.16	17.16
		CCC recycle		388.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	388.00	0.49	0.49
22	Boxes, Shipping & Packaging Retail	Plastic 5 gal bucket reuse	4.0	318.75	7,812.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Plastic	1.9 lbs/box	Value	8,131.20	4.07	4.07
		CCC recycle		130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	59.08 lbs/box	Tafco	7,812.45	3.91	3.91
		WV reduction / on-line reports & display copy		180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	0.01 lb/Sheet @ 500 sheets/box - 5 boxes	USEPA	130.00	0.07	0.07
		2.5 lb/medium box		180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Plastic	1.50 lbs/box	Business	180.00	0.09	0.09
23	Property management	Lower Cardboard return	3.0	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Other	2.5 lbs/box	USEPA	8.75	0.00	0.00
24	Roofing Sales	WV reduction / on-line forms & other	4.0	52.00	228.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	5 boxes	USEPA	52.00	0.09	0.09
		CCC Recycle		50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	50.00	0.14	0.14
25	Travel agency	WV reduction / on-line forms & other	3.0	104.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	5 boxes	USEPA	104.00	0.05	0.05
26	Restaurant	CCC recycle	10.0	625.20	10,018.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	10,018.00	5.11	5.11
		Glass recycle		5,720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	1.00 lb/box	USEPA	5,720.00	2.86	2.86
		Cooking Grease recycle		1,490.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Other Org	7.45 lbs/gal	USEPA	1,490.00	0.31	0.31
		Plastic bucket reuse		625.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Plastic	1.1 lbs/box	USEPA	625.20	0.31	0.31
27	Accounting	CCC Recycle	2.0	180.00	114.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	114.40	0.06	0.06
		WV reduction / on-line forms & other		180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	5 boxes	USEPA	180.00	0.07	0.07
28	Reading Center	No Quantifiable Activities	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	5 boxes	USEPA	0.00	0.00	0.00
29	Convenience Store	CCC recycle	6.0	2,595.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	6,200.00	4.30	4.30
		CCC reduction (bulk usage)		5,153.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Plastic	2.2 lb/medium box	USEPA	5,153.00	2.58	2.58
		CCC reduction (bulk usage)		520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	0.5 lbs/box	USEPA	520.00	0.26	0.26
		Wood Pallet reuse		460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Other Org	40 lbs/box	USEPA	460.00	0.24	0.24
30	Jewelry Store	Wood Pallet reuse	7.0	188.40	400.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	400.40	0.20	0.20
		CCC Recycle		114.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	114.40	0.06	0.06
31	Tea & gifts	WV reduction / on-line forms & display copy	4.0	228.80	228.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	5 boxes	USEPA	228.80	0.11	0.11
		CCC Recycle		228.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	228.80	0.11	0.11
32	Retail shoe store	CCC Recycle	3.0	514.80	1,029.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	1,029.60	0.51	0.51
		CCC Recycle		514.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	2.2 lb/medium box	USEPA	514.80	0.26	0.26
33	Electronics Retail Store	CCC recycle	82.5	4,828.00	842,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	420.0 lbs/box	USEPA	842,700.00	418.76	418.76
		CCC recycle		842,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	420.0 lbs/box	USEPA	842,000.00	418.00	418.00

REDONDO BEACH HBVS															
Attachment 9C - Detail List of All Businesses															
Bus. No.	Business Type	Activity	# Emp.	SR Inc.	Recycle Inc.	Debits SR	Waste Pymt Begun	Inlets or Ag	Inlets or Ag	Composting	Material Type	Conversion Factor	Source	Division	
		Re-Quarantined Address		Inc.	Inc.	Inc.	Waste Pymt Begun	Inlets or Ag	Inlets or Ag					Tons per year	
96	Self Storage Company		5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
96	Moving & Storage	W/P recycle	6.0	2,548.00	900.00	0.00	0.00	0.00	0.00	0.00	Paper	25.41 lbs 50 gal	USEPA	3,448.00	
		W/L reduction / on-line reports & other		299.00	900.00							Paper	0.01 lb sheet @ 500 sheets/ream = 5 bales	USEPA	280.00
		CCC reuse		2,269.00								Paper	22 lbs/medium box	USEPA	2,269.00
97	Blac-Retail	CCC reduction / on-line reports	22.5	18,860.00	52.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	18,860.00	
		W/L recycle		11,440.00							Paper	22 lbs/medium box	USEPA	11,440.00	
		Wood Pallet return		4,992.00							Other Org	40.0 lb/5	USEPA	4,992.00	
98	Department Store	W/L reduction / duplex copy & on-line		298.00							Paper	0.01 lb sheet @ 500 sheets/ream = 5 bales	USEPA	298.00	
		CCC recycle	45.0	28,070.00	324,490.00	0.00	0.00	0.00	0.00	0.00	Paper	7500 sheets	Business	324,490.00	
		Stretch wrap & bin bags recycle			312,000.00						Paper	4.8 lbs/ea. 33 gal	Business	312,000.00	
99	Drive-through Convenience Store	Toner Cartridge return		91.00	12,480.00						Other	2.5 lbs/ea	USEPA	91.00	
		W/L reduction / on-line reports & other		5,200.00							Paper	0.01 lb sheet @ 500 sheets/ream = 5 bales	USEPA	5,200.00	
		CCC reuse		11,440.00							Paper	22 lbs/medium box	USEPA	11,440.00	
100	Grocery/Convenience Store	Wood Pallet return		56.00							Other Org	1 ton/mo.	Business	56.00	
		CCC recycle	4.0	3,596.00	2,768.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	3,596.00	
		CCC reduction / on-line reports		2,268.00							Paper	22 lbs/medium box	USEPA	2,268.00	
101	Retail Appliances/Repair	Wood Pallet return		1,152.00							Other Org	40.0 lb/5	USEPA	1,152.00	
		Wood Pallet reuse		56.00							Other Org	40.0 lb/5	USEPA	56.00	
		Wood Pallet recycle		480.00							Other Org	40.0 lb/ea	USEPA	480.00	
102	Retail Matt Matt	Wood Pallet recycle	5.0	1,800.00	1,716.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	1,800.00	
		CCC recycle		1,800.00							Plastic	0.5 lbs/ea.	Business	1,800.00	
		Plastic Pots reuse		260.00	10,418.64	0.00	0.00	0.00	0.00	0.00	Paper	50.00 sheets	Business	10,418.64	
103	Retail Matt Matt	CCC recycle	3.0	260.00	10,418.64	0.00	0.00	0.00	0.00	0.00	Paper	0.01 lb sheet @ 500 sheets/ream = 5 bales	USEPA	260.00	
		W/L reduction / duplex copy		260.00							Paper	50.00 sheets	Business	260.00	
		CCC reuse		8,800.00	8,200.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 sheets	Business	8,800.00	
104	Retail Matt Matt	CCC recycle	0.9	8,800.00	8,200.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 sheets	Business	8,800.00	
		Wood Pallet reuse		4,160.00							Other Org	40.0 lb/5	USEPA	4,160.00	
		CCC reduction / on-line reports		5,720.00							Other Org	40.0 lb/ea	USEPA	5,720.00	
105	Retail Matt Matt	CCC recycle	6.0	5,304.00	6,200.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	5,304.00	
		Wood Pallet reuse		4,160.00							Other Org	40.0 lb/5	USEPA	4,160.00	
		CCC reduction / on-line reports & duplex copy		260.00							Paper	0.01 lb sheet @ 500 sheets/ream = 5 bales	USEPA	260.00	
106	Second Hand - Clothing & Housewares Store	CCC recycle	8.0	11,440.00	11,440.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	11,440.00	
		CCC reduction / on-line reports		11,440.00							Paper	22 lbs/medium box	USEPA	11,440.00	
		CCC reuse		25,730.00	25,260.00	0.00	0.00	0.00	0.00	0.00	Paper	2500 lbs/ea. box	Business	25,260.00	
107	Misc. Retail	CCC recycle	34.0	25,730.00	25,260.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	25,260.00	
		CCC reduction / on-line reports		22,850.00							Paper	22 lbs/medium box	USEPA	22,850.00	
		Wood Pallet reuse		19,920.00							Other Org	40.0 lb/ea	USEPA	19,920.00	
108	TV & VCR Repair Shop	W/L reduction / on-line reports & duplex copy		260.00							Paper	0.01 lb sheet @ 500 sheets/ream = 5 bales	USEPA	260.00	
		CCC recycle	1.0	220.50	278.00	0.00	0.00	0.00	0.00	0.00	Paper	22 lbs/medium box	USEPA	220.50	
		Static flammable parts reuse		156.00							Plastic	3.0 lbs/ea	Business	156.00	
109	TV & VCR Repair Shop	Static TV screen recycle		48.00							Other	1.0 lb/ea. - worst low	Business	48.00	
		TV donations / schools		82.50							Other	15.0 lbs/ea. - worst low	Business	82.50	
		CCC reuse		0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	Other	15.0 lbs/ea. - worst low	Business	1,200.00	

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REDONDO BEACH REITS													
Attachment 9C - Detail List of All Businesses													
Item	Business Type	Activity	# Emp	SP	Recycle	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste
Ac.				Ex.	Ex.	Ex.	Ex.	Ex.	Ex.	Ex.	Ex.	Ex.	Ex.
123	Relaxation	Relaxation	8.0	1,274.00	7,875.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Relaxation			7,875.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Relaxation			7,875.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	Gift Shop	Gift Shop	5.0	683.00	1,144.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Gift Shop			1,144.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Gift Shop			1,144.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	Electronics Retail	Electronics Retail	45.0	4,106.00	8,569.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Electronics Retail			8,569.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Electronics Retail			8,569.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	Furniture Store	Furniture Store	4.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Furniture Store			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Furniture Store			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	Customer Service	Customer Service	20.0	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Customer Service			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Customer Service			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	Chemicals	Chemicals	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemicals			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemicals			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	Chemicals	Chemicals	5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemicals			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemicals			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	Grocery Store	Grocery Store	40.0	77,816.00	155,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Grocery Store			155,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Grocery Store			155,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	Antiques & Collectibles	Antiques & Collectibles	9,000.0	305,560.00	603,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Antiques & Collectibles			603,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Antiques & Collectibles			603,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	Auto Repair	Auto Repair	4.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Auto Repair			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Auto Repair			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	Shoes - Retail	Shoes - Retail	3.0	3,432.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Shoes - Retail			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Shoes - Retail			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	Interior Design	Interior Design	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Interior Design			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Interior Design			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	Value Retail & Sales	Value Retail & Sales	1.0	280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Value Retail & Sales			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Value Retail & Sales			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	Chemistry Store	Chemistry Store	80.0	10,920.00	1,040,212.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemistry Store			1,040,212.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemistry Store			1,040,212.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	Chemistry Store	Chemistry Store	80.0	10,920.00	1,040,212.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemistry Store			1,040,212.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Chemistry Store			1,040,212.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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RECONDO BEACH NIBS													
Attachment 9C - Detail List of All Businesses													
Ref.	Business Type	Activity	# Emp.	SA Bt.	Recycle Bt.	Waste Bt.	Waste Bt.	Waste Bt.	Waste Bt.	Waste Bt.	Waste Bt.	Waste Bt.	Waste Bt.
No.													
148	Coffee Shop	Non-quantifiable recycle - non-ORV	2.0	228.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	Optical store	No Quantifiable Activities	3.0	288.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	Restaurant	CCC Recycle boxes	2.0	288.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	Restaurant	CCC Recycle	4.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	Restaurant	CCC Recycle	90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	Restaurant	CCC Recycle	5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	Restaurant	CCC Recycle	8.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	Health/Beauty Aid Store	CCC Recycle	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	Art/Spa/Jewelry Store	CCC Recycle	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	Restaurant	CCC Recycle	25.0	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	Women's clothing store	CCC Recycle	10.0	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	Film Lab/Photo center	CCC Recycle	7.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	Shoe Equipment/Supplies	CCC Recycle	2.0	1,372.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	Health Aid	CCC Recycle	2.0	1,372.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	Men's Clothing	CCC Recycle	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	Pharmacy	CCC Recycle	2.0	2,288.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	Restaurant	CCC Recycle	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	Jewelry Store	CCC Recycle	5.5	52.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	Shoe & Wholesale	CCC Recycle	5.0	4,812.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	Food/dinner	CCC Recycle	4.0	52.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

REDONDO BEACH RIBS																	
Attachment 9C - Detail Unit of All Businesses																	
Ref.	Business Type	Activity	# Emp.	SR	Recycle	Metals	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Material	Conversion Factor	Source	Duration
No.				Bt.	Bt.	SR	H	SR	H	SR	H	SR	H	Type	per year	per year	Years
168	Auto repairs	Wt. reduction / on-line reports & other	10.0	50.00	280.00	5,208.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	10.42
169	Medical Offices	Wt. reduction / on-line reports & other	1.0	52.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.09
170	Kitchens	Wt. reduction / on-line reports & other	2.0	62.40	228.80	228.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	2.79
171	Insurance	Wt. reduction / on-line reports & other	2.0	62.40	228.80	228.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.13
172	Clothing	Wt. reduction / on-line reports & other	2.0	62.40	228.80	228.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.09
173	Gifts	Wt. reduction / on-line reports & other	3.0	482.40	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.15
174	Electronic parts	Wt. reduction / on-line reports & other	20.0	1,300.00	113,412.00	113,412.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.11
175	Electronic parts	Wt. reduction / on-line reports & other	10.0	3,580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.09
176	Computers	Wt. reduction / on-line reports & other	2.0	0.00	260.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.14
177	Uniq. Store	Wt. reduction / on-line reports & other	3.0	0.00	1,258.40	1,258.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.03
178	Dry Cleaning	Wt. reduction / on-line reports & other	8.0	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.27
179	Travel Agency	Wt. reduction / on-line reports & other	3.0	312.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.11
180	Computer Classes	Wt. reduction / on-line reports & other	10.0	463.90	514.80	514.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.16
181	Gifts	Wt. reduction / on-line reports & other	3.0	171.60	286.00	286.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.08
182	Variety Store	Wt. reduction / on-line reports & other	7.0	800.00	286.00	286.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.09
183	Auto Repairs	Wt. reduction / on-line reports & other	5.0	800.00	286.00	286.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.08
184	Graphics	Wt. reduction / on-line reports & other	4.0	130.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.07
185	Sound Systems	Wt. reduction / on-line reports & other	3.0	52.00	52.00	52.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.09
186	Wholesale Toys	Wt. reduction / on-line reports & other	4.0	23,010.00	120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Paper	50.00 box	USEPA	0.06

REDONDO BEACH NBT'S Attachment 9C - Detail List of All Businesses														Division	
Ref.	Business Type	Activity	# Emp.	SR	Recycle	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Source	Divisions
No.				Br.	Br.	Br.	Br.	Br.	Br.	Br.	Br.	Br.	Br.	per year	per year
187	Video Store	W/L reduction / on-line reports & other	5.0	22,850.00	400.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	130.00
		CCC Recycle												USEPA	22,850.00
		Plastic VCR, VHS, Laser Disc		500.00	400.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	600.40
188	Unk. Store	CCC Recycle	3.0	1,170.00	9,430.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	280.00
		CCC Recycle			10,400.00									USEPA	11,570.00
		W/L reduction / on-line reports & other		25.00										Totals	10,420.00
189	Flourishing & Healing	W/L reduction / on-line reports & other	3.0	0.00	280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	1,144.00
		CCC Recycle			280.00									USEPA	280.00
190	Maiding	W/L reduction / on-line reports & other	3.0	500.00	400.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	280.00
		CCC Recycle			400.40									USEPA	280.00
191	Voluntary Office	W/L reduction / on-line reports & other	4.0	1,200.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	1,500.00
		CCC Recycle			600.40									USEPA	1,500.00
192	Bookshop	W/L reduction / on-line reports & other	5.0	223.80	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	600.40
		CCC Recycle			600.40									USEPA	600.40
193	Carry-out restaurant	W/L reduction / on-line reports & other	5.0	850.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	200.00
		CCC Recycle			600.40									USEPA	200.00
194	Insurance Agency	W/L reduction / on-line reports & other	10.0	1,200.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	200.00
		CCC Recycle			600.40									USEPA	200.00
195	Mail station	W/L reduction / on-line reports & other	2.0	1,340.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	1,340.00
		CCC Recycle			600.40									USEPA	1,340.00
196	Chiropractic	W/L reduction / on-line reports & other	2.0	707.20	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	707.20
		CCC Recycle			600.40									USEPA	707.20
197	Custom glass works	W/L reduction / on-line reports & other	2.0	4,212.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	4,212.00
		CCC Recycle			600.40									USEPA	4,212.00
198	Nail salon	W/L reduction / on-line reports & other	3.0	4,050.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	4,050.00
		CCC Recycle			600.40									USEPA	4,050.00
199	Custom construction	W/L reduction / on-line reports & other	3.0	4,050.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	4,050.00
		CCC Recycle			600.40									USEPA	4,050.00
200	Outsourcing	W/L reduction / on-line reports & other	3.0	4,050.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	4,050.00
		CCC Recycle			600.40									USEPA	4,050.00
201	Call center phone sales	W/L reduction / on-line reports & other	3.0	4,050.00	600.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	USEPA	4,050.00
		CCC Recycle			600.40									USEPA	4,050.00

REDONDO BEACH HSYS										Attachment NC - Detail Programs for All Businesses									
Attachment NC - Detail List of All Businesses																			
Ref. No.	Business Type	Activity	# Emp.	SR	Rec.	Recycle	Metals	Waste From Region	Year Recycled	Composting	Material Type	Conversion Factor	Source	Diversion	Pounds per year	Diversion	Total	per year	Diversion
220	Pasale Children's Store	plastic film recycling	15	0.00	76.00	76.00	0.00	0.00	0.00	0.00	Plastic	4.13 lbs/bag	EcoTakes Field Study	USEPA	598.40	0.30	598.40	0.30	598.40
221	Store and The Flooring	plastic bottle recycling	3	260.00	76.00	76.00	0.00	0.00	0.00	0.00	Other Org	7.45 lbs/bag	EcoTakes Field Study	USEPA	4,917.00	2.46	4,917.00	2.46	4,917.00
222	Antique Store	plastic bottle recycling	3	240.00	76.00	76.00	0.00	0.00	0.00	0.00	Other Org	1.95 lbs/bag	EcoTakes Field Study	USEPA	28,544.80	13.87	28,544.80	13.87	28,544.80
223	Retail	plastic bottle recycling	3	240.00	76.00	76.00	0.00	0.00	0.00	0.00	Other Org	40 lbs/bag	EcoTakes Field Study	USEPA	12,480.00	6.24	12,480.00	6.24	12,480.00
224	Beauty Supply	plastic bottle recycling	2	28.80	28.80	28.80	0.00	0.00	0.00	0.00	Other Org	30 lbs/bag	EcoTakes Field Study	USEPA	78.00	0.04	78.00	0.04	78.00
225	Dry Cleaners	plastic bottle recycling	2	28.80	28.80	28.80	0.00	0.00	0.00	0.00	Other Org	2.2 lbs/bag	EcoTakes Field Study	USEPA	242.00	0.12	242.00	0.12	242.00
226	Upper Store	plastic bottle recycling	2.5	8,320.00	8,320.00	8,320.00	0.00	0.00	0.00	0.00	Other Org	3 lbs/bag	EcoTakes Field Study	USEPA	18.00	0.01	18.00	0.01	18.00
227	Cigarette Store	plastic bottle recycling	1.5	471.60	471.60	471.60	0.00	0.00	0.00	0.00	Other Org	2.2 lbs/bag	EcoTakes Field Study	USEPA	2,470.00	1.24	2,470.00	1.24	2,470.00
228	Video Rental	plastic bottle recycling	4	171.80	171.80	171.80	0.00	0.00	0.00	0.00	Other Org	1.8 lbs/bag	EcoTakes Field Study	USEPA	2,470.00	1.24	2,470.00	1.24	2,470.00
229	Vitamin Store	plastic bottle recycling	1	171.80	171.80	171.80	0.00	0.00	0.00	0.00	Other Org	1.8 lbs/bag	EcoTakes Field Study	USEPA	2,470.00	1.24	2,470.00	1.24	2,470.00
230	Vitamin Store	plastic bottle recycling	2	28.80	28.80	28.80	0.00	0.00	0.00	0.00	Other Org	30 lbs/bag	EcoTakes Field Study	USEPA	78.00	0.04	78.00	0.04	78.00
231	Frame Store	plastic bottle recycling	2	8,320.00	8,320.00	8,320.00	0.00	0.00	0.00	0.00	Other Org	4.8 lbs/bag	EcoTakes Field Study	USEPA	8,320.00	4.16	8,320.00	4.16	8,320.00
232	Shoe Store	plastic bottle recycling	2.0	1,075.40	1,075.40	1,075.40	0.00	0.00	0.00	0.00	Other Org	8 lbs/bag	EcoTakes Field Study	USEPA	8,320.00	4.16	8,320.00	4.16	8,320.00
233	Book Store	plastic bottle recycling	2.0	880.00	880.00	880.00	0.00	0.00	0.00	0.00	Other Org	2.2 lbs/bag	EcoTakes Field Study	USEPA	171.80	0.08	171.80	0.08	171.80
234	Card Shop	plastic bottle recycling	6.0	171.80	171.80	171.80	0.00	0.00	0.00	0.00	Other Org	1.1 lbs/bag	EcoTakes Field Study	USEPA	1,075.40	0.54	1,075.40	0.54	1,075.40
235	Pen Supply Store	plastic bottle recycling	7.0	7,280.00	7,280.00	7,280.00	0.00	0.00	0.00	0.00	Other Org	50.08 lbs/bag	EcoTakes Field Study	USEPA	12,480.00	6.24	12,480.00	6.24	12,480.00
236	Tanning Salon	plastic bottle recycling	4.5	1,500.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	Other Org	0.75 lbs/bag	EcoTakes Field Study	USEPA	8,320.00	4.16	8,320.00	4.16	8,320.00
237	Tanning Salon	plastic bottle recycling	4.5	1,500.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	Other Org	2.2 lbs/bag	EcoTakes Field Study	USEPA	171.80	0.08	171.80	0.08	171.80
238	Shoe Repair	plastic bottle recycling	4.5	457.60	457.60	457.60	0.00	0.00	0.00	0.00	Other Org	50.08 lbs/bag	EcoTakes Field Study	USEPA	12,480.00	6.24	12,480.00	6.24	12,480.00
239	Dry Cleaners	plastic bottle recycling	2.0	457.60	457.60	457.60	0.00	0.00	0.00	0.00	Other Org	1.1 lbs/bag	EcoTakes Field Study	USEPA	8,320.00	4.16	8,320.00	4.16	8,320.00
240	Computer Store	plastic bottle recycling	2.5	25.74	25.74	25.74	0.00	0.00	0.00	0.00	Other Org	0.33 lbs/bag	EcoTakes Field Study	USEPA	25.74	0.01	25.74	0.01	25.74
241	Electronics Store	plastic bottle recycling	6.0	4,004.00	4,004.00	4,004.00	0.00	0.00	0.00	0.00	Other Org	2.2 lbs/bag	EcoTakes Field Study	USEPA	4,004.00	2.00	4,004.00	2.00	4,004.00
242	Tobacco Store	plastic bottle recycling	5.0	2,604.16	2,604.16	2,604.16	0.00	0.00	0.00	0.00	Other Org	2.2 lbs/bag	EcoTakes Field Study	USEPA	4,004.00	2.00	4,004.00	2.00	4,004.00
243	Drug Store	plastic bottle recycling	2.0	1,500.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	Other Org	90.08 lbs/bag	EcoTakes Field Study	USEPA	2,604.16	1.30	2,604.16	1.30	2,604.16
244	Spa Store	plastic bottle recycling	15.5	8,320.00	8,320.00	8,320.00	0.00	0.00	0.00	0.00	Other Org	30 lbs/bag	EcoTakes Field Study	USEPA	1,500.00	0.78	1,500.00	0.78	1,500.00
245	Market	plastic bottle recycling	2.0	8,320.00	8,320.00	8,320.00	0.00	0.00	0.00	0.00	Other Org	400 lbs/bag	EcoTakes Field Study	USEPA	20,800.00	10.40	20,800.00	10.40	20,800.00
246	Spa Store	plastic bottle recycling	2.0	8,320.00	8,320.00	8,320.00	0.00	0.00	0.00	0.00	Other Org	40 lbs/bag	EcoTakes Field Study	USEPA	8,320.00	4.16	8,320.00	4.16	8,320.00
247	Market	plastic bottle recycling	60.5	28,665.00	28,665.00	28,665.00	0.00	0.00	0.00	0.00	Other Org	2.5 lbs/bag	EcoTakes Field Study	USEPA	5.00	0.00	5.00	0.00	5.00
248	Market	plastic bottle recycling	60.5	28,665.00	28,665.00	28,665.00	0.00	0.00	0.00	0.00	Other Org	325 lbs/bag	EcoTakes Field Study	USEPA	28,665.00	117.15	28,665.00	117.15	28,665.00
249	Market	plastic bottle recycling	60.5	28,665.00	28,665.00	28,665.00	0.00	0.00	0.00	0.00	Other Org	42.35 lbs/bag	EcoTakes Field Study	USEPA	185,000.00	92.46	185,000.00	92.46	185,000.00
250	Market	plastic bottle recycling	60.5	28,665.00	28,665.00	28,665.00	0.00	0.00	0.00	0.00	Other Org	42.35 lbs/bag	EcoTakes Field Study	USEPA	8,800.90	4.40	8,800.90	4.40	8,800.90

REDONDO BEACH MBYS														
Attachment 9C - Detail Use of All Businesses														
Est.	Business Type	Activity	# Emp	SR	Recycle	Metals	Waste	Yard	Waste	Composting	Material	Conversion Factor	Source	Division
15				lbs	lbs	SR	lbs	lbs	lbs	SR	lbs			per year
		Pallets sent back for reuse		16,640.00							Other Org	40 Btu/lb	USEPA	16,640.00
		Salvage goods donated to homeless		8,320.00							Other Org	20 Btu/lb	Business	8,320.00
		Produce and meat given away for reuse		3,900.00							Other Org	75 Btu/lb	Business	3,900.00
		Grease trap pickups up and recycled			10,650.00						Other Org	410 Btu/lb	USEPA	10,650.00
248	Car Wash	Oil recycled by hauler	50		171.60						Paper	1.1 Btu/lb	USEPA	171.60
249	Oil Store	Oil used	80	842.40							Paper	1.1 Btu/lb	USEPA	842.40
		Oil recycled		137.28							Paper	1.1 Btu/lb	USEPA	137.28
		PS generated in Mailbox, etc.		548.12							Plastic	1.5 Btu/lb	USEPA	548.12
		Recycled paper used as news		156.00							Paper	1.1 Btu/lb	USEPA	156.00
				113.46							Paper	1.1 Btu/lb	USEPA	113.46
														0.00
														0.00

10. On a separate sheet of paper, "marked Attachment 10," provide the following information for each diversion program listed in Section 8 that was extrapolated from representative sampling. **Note:** *Do not include non-respondents in extrapolation because there is no data from the non-respondents. Extrapolate from survey respondents.*

A. Describe sampling method, including:

- Type of sampling method (for either stratified or cluster sampling, provide detailed information on how strata and clusters were collected)
- Total number of samples included in the survey
- Number of non-respondents and respondents
- Total population
- Source for identifying population (e.g., city business licenses, commercial database, resident's addresses, etc)
- Relation of sample size to total population
- Survey data collection tool(s) and approaches
- Confidence level and margin of error for the sampled population
- Unusual outliers and exceptional anomalies describe in detail.

Note: *Outliers (specific generators which fall significantly above or below others) should be removed from base amount prior to extrapolation)*

B. Describe the methods used to prevent double-counting between the surveys and the reported tonnages from haulers, recyclers, materials recycling facilities and composters.

C. Describe extrapolation method, including:

- Basis of extrapolation
- Why this extrapolation method is appropriate
- Sources of information used for extrapolation, such as disposal or employment
- Include all calculations

Attachment 10
City of Redondo Beach
Extrapolation Methodology

A. Sampling Method

The City of Redondo Beach has had a franchise agreement with their waste hauler for over 6 years. Any business could be included in the survey since the franchise agreement included the non-residential sector. For the minimum sample number, the CIWMB ABI database (used to determine minimum sample number) utilized during the technical subcommittee meeting on the Diversion Study Guide provided the 90% confidence interval and 5% level of precision. The minimum sample number to meet the requirements of a statistically representative sample is 243 businesses.

Each year since 1998, EcoTelesis staff/personnel conducted on-site visits and this year all data were updated to reflect the data of a single year (2000). (After extrapolation, it was discovered that old surveys from 1998 were conducted, but since data sheets were in storage, they were not used for this study.)

The City of Redondo Beach contacted over 350 businesses, and collected data from 247 on-site completed surveys. The primary purpose of the surveys during the first phase was to develop information for new programs that can be focused on the commercial and industrial businesses in the City of Redondo Beach. The second phase focused more on getting the minimum sample number for the extrapolated study.

B. Methods used to prevent double counting

To prevent double counting, the regional diversion facilities for traditional recyclable materials (paper, plastic, OCC, etc.) were not quantified. The focus of the study was to obtain the information from the generator side, rather than the regional diversion facility side. This method is preferred because many regional diversion facilities do not know the jurisdictional source of the recyclables that they receive. Many of the end markets are unknown and experience from previous studies indicates difficulty identifying all of

C. Extrapolation Method Description and Outlier Analysis

The extrapolation is based on employment-based statistical extrapolation methodology. After removal of the outliers (businesses with extraordinary diversion as defined below), a source reduction correlative factor for diversion, and a recycling correlative factor for diversion were developed from the on-site surveys by dividing the total diversion tons by the number of employees in the sample base. The correlative factors for diversion were developed separately for the large strata and the small strata after removal of the outliers for each type of diversion practice (recycling, source reduction and composting).

The outlier analysis method was reviewed with the CIWMB staff. The outlier analysis screening filter consisted of a two-part test. The first part is a mathematical test that identifies any individual business that has a "high" diversion correlative factor. This was accomplished mathematically by first calculating the simple average for each strata. Next the standard deviation was calculated. A threshold value that raises a "red flag" as potential for being an outlier was determined by adding the value of the simple average to twice the standard deviation value for each business surveyed. The correlative diversion factor for each business (and each respective diversion practice) was subtracted from the threshold value. If the answer resulted in a negative value, that particular business was subjected to the second part of the test, which consisted of

- 1) Is this type of business unique in this city?
- 2) Is the diversion practice unique?

3) Is the diversion tonnage significantly from the diversion program abnormally larger than achieved by similar businesses of this type and size?

If the answer to all three subparts is no, then the individual business was not considered an outlier. If the answer to any single one of the subparts is "yes", the sample is considered an outlier and removed from the calculation of the extrapolative diversion correlative factor to prevent excessive diversion credit being given to the city. Once a sample is an outlier, the diversion from the business is only added to the final computed diversion from extrapolation diversion as an "actual sample" (that is, not included in the extrapolation). This insures that the diversion from the business is counted, but not extrapolated to give

The Excel spreadsheet files for extrapolation (showing the calculation formulas in each cell) have been provided to the CIWMB with the new base year certification request form.

D. Source of Business Listing / Sampling Population

A Thomas Brothers map book was used to determine the City limits. A Dunn and Bradstreet database from the University of California at Los Angeles Waste Management and Recycling Program, CIWMB/UCLA Interagency Research Program, was used to determine the total number of employees in order to define the 80% cut-off point between the Large Business Strata and the Small Business Strata. The number of businesses approached for on-site visits was approximately 350+. Site visits were conducted at 247+ businesses. According to the CIWMB ABI database, there are approximately 2391 businesses in Redondo Beach. Over 10.46 percent of the businesses in the City of Redondo Beach were visited.

E. Sampling Accuracy

The sampling plan statistical accuracy is based on Appendix K of the CIWMB April 2001 Diversion Study Guide. The number of samples meets the minimum requirements of 90 percent confidence interval, with a plus or minus 5 percent precision level. The City of Redondo Beach's new base year study utilizes on-site data from 247 samples. The number of samples collected exceeds the minimum number of samples by 4 samples. (Source CIWMB: 2391 businesses in Redondo Beach.) The total number of employees in Redondo Beach is 42,880 according to the Employment Development Department (EDD)

11. For each restricted waste type (i.e., agricultural waste, inert solids [e.g., concrete, asphalt, dirt etc.] scrap metals, and white goods [PRC section 41781.2]) and associated program, please provide the following information:

a. If the diversion program started on or after January 1, 1990, complete the following table.

Note: program name refers to one specific diversion program for that waste type (e.g., "diversion conducted by city public waste department.")

Restricted Waste Type	Specific Program Name	Year Started	Tonnage
inert material	Franchised hauler accepts & recycles City C&D material (asphalt & concrete) at Transfer Station	1996?	1292
inert material	Chandler's Plt Inerts Resale Program including RPV inerts (does not include land reclamation or ADC tonnages excluded by CIWMB July 2001 action). Part of South Bay Cities work group to increase C&D recycling in area.	1992	2088
scrap metals	Source Reduction & Recycling activities for metal at businesses	after 1990	see Attachment 9B
pull down for waste types			
pull down for waste types			
pull down for waste types			

b. If the diversion program started before January 1, 1990 - and if documentation on the program and waste type has not been approved by the Board - on a separate sheet marked "Attachment 11b," give the program and waste type, and provide documentation that indicates:

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion (PRC sec. 41781.2 [c] [1]).
- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. **Note:** this criterion is applicable to the entire jurisdiction, not to individual programs (PRC sec. 41781.2 [c] [2]). Please include documentation.
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 11b for that waste type and program.

Instead, please provide date of Board approval of previous submitted information.) _____ (Date)

If documentation is not available, go to 11d.

c. If the diversion program started before January 1, 1990, and the documentation requested in 11b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New Base Year or Reporting Year Diversion Tonnage

d. If the diversion program started before January 1, 1990, and the documentation requested in 11b is not available, please complete the table below for each program claimed. **Note:** Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.

Restricted Waste Type	Specific Program Name	New Base Year or Reporting Year Tonnage	1990 Diversion Tonnage	Difference
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				